

Applic. No. 10/653,653

Amdt. dated February 3, 2006

Reply to Office action of November 3, 2005

Claim Amendments

This listing of the claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (original): A sensor module comprising at least one sensor element that is at least partially surrounded by a housing, wherein the housing of the module is flexible, and a transmission means for wireless data transmission is integrated in the module.

Claim 2 (original): The sensor module of claim 1, wherein the transmission means contains an antenna and/or an induction coil.

Claim 3 (original): The sensor module of claim 1, wherein an operational voltage for the sensor module is inductively coupled in.

Claim 4 (original): The sensor module of claim 1, wherein the operational voltage for the sensor module is electromagnetically coupled in.

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Claim 5 (currently amended): The sensor module of claim 1, wherein the flexible housing consists of one or more flexible foils includes at least two flexible foils, a first one of the flexible foils supports the at least one sensor element and a second one of the flexible foils overlaps the first one of the flexible foils and supports the transmission means.

Claim 6 (original): The sensor module of claim 1, wherein the flexible housing is designed so that it may be vulcanized into a rubber tire.

Claim 7 (previously presented): The sensor module of claim 1, wherein the flexible housing is adapted to the geometry of a receiving unit.

Claim 8 (currently amended): The sensor module of claim 1, wherein the sensor module incorporates a memory element configured to store specific data that is not data sensed by the sensor element.

Claim 9 (original): The sensor module of claim 1, wherein the sensor element is a pressure sensor and the entire sensor module is inductively operated.

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Claim 10 (original): The sensor module of claim 9, wherein a gel is introduced between the flexible cover and the pressure sensor.

Claim 11 (previously presented): A method for producing a sensor module with at least one sensor element, the method comprising:

providing at least one sensor element being at least partially surrounded by a flexible housing; and

integrating transmission means for wireless data transmission into the module.

Claim 12 (cancelled).

Claim 13 (new): The method according to claim 11, wherein the flexible housing includes at least two flexible foils, a first one of the foils supports the at least one sensor element and a second one of the foils overlaps the first one of the foils and supports the transmission means.